



COMMONWEALTH of VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010498
CERTIFICATION DATE: November 20, 2013
DATE RECERTIFICATION DUE: May 19, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

Melissa Kennedy (handwritten signature)

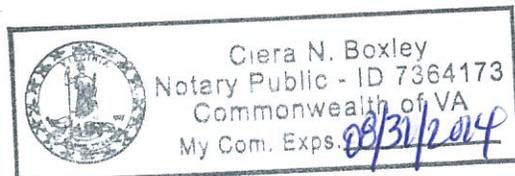
Melissa Kennedy
Program Manager, Calibration & Training

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 2nd day of December, 2013 by Melissa Kennedy

Ciera N. Boxley (handwritten signature)
Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014
TLN



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 11/25/2013

HMS
NJK

Instrument Serial Number: 010498

As of 25-Nov-13

Maintenance Date	Certification Date	Technician Initials	Remarks
20-Nov-13	20-Nov-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
30-May-13	30-May-13	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
17-Dec-12	17-Dec-12	HMS (18910)	CERTIFIED
10-Jul-12	10-Jul-12	HMS (18910)	CERTIFIED
07-May-12	07-May-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
09-Nov-11	09-Nov-11	HMS (18910)	CERTIFIED
03-Jun-11	03-Jun-11	HMS (18910)	REPLACED PRINTER RIBBON, REPLACED DRY GAS STANDARD, CERTIFIED
20-Dec-10	20-Dec-10	HMS (18910)	CERTIFIED
01-Jul-10	01-Jul-10	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
05-Jan-10	05-Jan-10	HMS (18910)	CERTIFIED
11-Aug-09	11-Aug-09	HMS (18910)	CERTIFIED.
26-Mar-09	26-Mar-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
18-Dec-08	18-Dec-08	HMS (18910)	CERTIFIED.
17-Nov-08	17-Nov-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

INTOX EC/IR II Quality Assurance Worksheet

HMS
ADK

Instrument Serial Number: 010498 Worksheet Start Date: 11/20/2013

Location: Dinwiddie County

Address: 14230 Sycamore Dr., Dinwiddie, VA 23841

DFS Technician: Heather Stanton License No.: 18910

Laboratory On-Site

Site Specifications

	Yes	No
1 Secured Environment: Location must not be accessible to the general public.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Environment free from contaminants	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3 Dedicated telephone line: The phone line should be used solely by the instrument.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4 Adequate Ventilation: Enough space must be provided for the instrument and the printer to allow for adequate ventilation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5 Stable temperature controls: The instrument should not be exposed to direct sources of temperature variation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 115VAC power source: Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7 Room Condition: The site should be free of excessive moisture, heat and dust.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Old serial no. E-Seek Keyboard Printer UPS	New serial no. 	Supplies Mouthpieces Certificates of Analysis Operator Worksheet Other:	
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Maintenance (if any)
 Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 010498

Certification Date 11/20/2013

Instrument Barometer (mm HG) 764

Reference Barometer (mm HG) 765

Reference Barometer(RB)Serial # 009113

RB Calibration Due 5/8/2014

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.251
0.250	0.251	0.243	0.258	Sample 2	0.250
Precision		sample min	sample max	Sample 3	0.250
0.001		0.250	0.251		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.151
0.150	0.151	0.146	0.155	Sample 2	0.151
Precision		sample min	sample max	Sample 3	0.151
0		0.151	0.151		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.081
0.080	0.080	0.077	0.083	Sample 2	0.081
Precision		sample min	sample max	Sample 3	0.081
0		0.081	0.081		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.020
0.020	0.020	0.017	0.023	Sample 2	0.020
Precision		sample min	sample max	Sample 3	0.020
0		0.020	0.020		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

Calibrated Certified Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.) AG230501-41

Measurement Assurance Check Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.102
0.100	0.101	0.097	0.104	Sample 2	0.102
Precision		sample min	sample max	Sample 3	0.102
0		0.102	0.102		

DFS Technician Heath W. Stachura Date 11/25/13

Issuing Analyst Melissa Kennedy Date 11/26/13

AMS
WJK



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 11/20/2013
TEST EQUIPMENT NUMBER 010498		

RESULTS: TIME SAMPLE TAKEN 14:06 EST

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20 _____.

BREATH TEST OPERATOR

I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____ SUBJECT'S SIGNATURE

SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____ OPERATOR'S SIGNATURE

FOR COURT



IntoxNet MIS Report
Report Generated 20 Nov 2013 at 14:34

SJA
AMS
MSK

Test Results

Instrument Serial Number 010498

Test # 000909 Subject Test

Test Location 1 Department of
Test Date 20 Nov 2013

Test Location 2 Forensic Science
Test Time 14:00
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 20 Nov 2013 End Time 14:07

Result Time 14:06

Result Date 20 Nov 2013

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 14:00

Data Type BLK

Sample Value 0.000

Sample Time 14:01

Data Type CHK

Sample Value 0.101

Sample Time 14:02

Data Type BLK

Sample Value 0.000

Sample Time 14:03

Data Type SUBJ

Sample Value 0.000

Sample Time 14:04

Data Type BLK

Sample Value 0.000

Sample Time 14:05

Data Type SUBJ

Sample Value 0.000

Sample Time 14:06

Data Type BLK

Sample Value 0.000

Sample Time 14:07

Standard Type Dry Gas Std

Standard Value 0.101

Standard Lot Number AG230501-41

Standard Expiration Date 10/31/2014

Tank Pressure 1105

Barometric Pressure 765 mmHg

Blow Sample Number 1 Blow Duration 3.44 sec

Blow Volume 1712 cc End-of-Blow Time 14:04

Blow Sample Number 2 Blow Duration 3.34 sec

Blow Volume 1739 cc End-of-Blow Time 14:06

Tamper Evident Stamp 5b26bd66

Test Status Code 0

Test Status Success

HMS
HMS

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010498 Test Number: 910
Test Date: 11/20/2013 Test Time: 14:08 EST

Technician Initials: HMS

Dry Gas Target: 0.101

Lot Number: AG230501-41 Exp Date: 10/31/2014

Tank Pressure: 1105 psi Barometric Pressure: 765 mmHg

Test	g/210L	Time
DIAG	Pass	14:08
BLK	0.000	14:09
CHK	0.101	14:10
BLK	0.000	14:11
CHK	0.101	14:11
BLK	0.000	14:13
CHK	0.101	14:13
BLK	0.000	14:14

Success

Standard Value (at sea level): 0.100 g/210L

Certification Status: Success

One point certification done prior to firmware/software upgrade due to certification warning on display.

HMS
11/20/13

AMS
MSK

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010498 Test Number: 911

Test Date: 11/20/2013 Test Time: 14:15 EST

Dry Gas Target: 0.101

Lot Number: AG230501-41 Exp Date: 10/31/2014

Tank Pressure: 1085 psi Barometric Pressure: 764 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:16
CHK	0.101	14:17
BLK	0.000	14:19
CHK	0.100	14:19
BLK	0.000	14:21
CHK	0.100	14:21

Test Status: *Success*

Calibration CRC: 988CCBC7

AMS
NSL

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010498 Test Number: 912

Test Date: 11/20/2013 Test Time: 14:23 EST

Dry Gas Target: 0.302

Lot Number: AG322702-01 Exp Date: 08/15/2015

Tank Pressure: 193 psi Barometric Pressure: 764 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:24
CHK	0.301	14:25
BLK	0.000	14:26
CHK	0.300	14:27
BLK	0.000	14:28
CHK	0.300	14:29

Test Status: *Success*

Calibration CRC: 988CCBC7

HMS
WDL

Intox EC/IR-II: Software Version

Department of Forensic Science

Serial Number: 010498

System Date: 11/20/2013

System Time: 14:50 EST

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

ANS
NSK

Intox EC/IR-II: Calibration

Department of Forensic Science

Serial Number: 010498 Test Number: 913

Test Date: 11/20/2013 Test Time: 14:52 EST

Dry Gas Target: 0.101

Lot Number: 06512100I3-06 Exp Date: 04/01/2014

Tank Pressure: 595 psi Barometric Pressure: 764 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:53
CAL	0.101	14:53

Test Status: *Success*

Calibration CRC: 2C66631D

HMS
MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010498 Test Number: 914
Test Date: 11/20/2013 Test Time: 14:56 EST

Technician Initials: HMS

Dry Gas Target: 0.251

Lot Number: 29612250I2-08 Exp Date: 11/01/2014

Tank Pressure: 276 psi Barometric Pressure: 764 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:57
BLK	0.000	14:57
CHK	0.251	14:58
BLK	0.000	15:00
CHK	0.250	15:01
BLK	0.000	15:02
CHK	0.250	15:03
BLK	0.000	15:04

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

HMS
MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010498 Test Number: 915
Test Date: 11/20/2013 Test Time: 15:06 EST

Technician Initials: HMS

Dry Gas Target: 0.151

Lot Number: 29512150I2-02 Exp Date: 11/01/2014

Tank Pressure: 821 psi Barometric Pressure: 764 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:06
BLK	0.000	15:07
CHK	0.151	15:08
BLK	0.000	15:09
CHK	0.151	15:10
BLK	0.000	15:11
CHK	0.151	15:12
BLK	0.000	15:14

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

HMS
NSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010498 Test Number: 916
Test Date: 11/20/2013 Test Time: 15:15 EST

Technician Initials: HMS

Dry Gas Target: 0.080

Lot Number: 0771308012-04 Exp Date: 05/01/2015

Tank Pressure: 850 psi Barometric Pressure: 764 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:15
BLK	0.000	15:16
CHK	0.081	15:17
BLK	0.000	15:18
CHK	0.081	15:19
BLK	0.000	15:20
CHK	0.081	15:21
BLK	0.000	15:22

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS

NSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010498 Test Number: 917
Test Date: 11/20/2013 Test Time: 15:24 EST

Technician Initials: HMS

Dry Gas Target: 0.020

Lot Number: 0771302011-04 Exp Date: 05/01/2015

Tank Pressure: 963 psi Barometric Pressure: 764 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:24
BLK	0.000	15:25
CHK	0.020	15:26
BLK	0.000	15:27
CHK	0.020	15:28
BLK	0.000	15:29
CHK	0.020	15:30
BLK	0.000	15:31

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

AMS

AWL

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010498 Test Number: 918

Test Date: 11/20/2013 Test Time: 15:33 EST

Dry Gas Target: 0.302

Lot Number: AG322702-01 Exp Date: 08/15/2015

Tank Pressure: 188 psi Barometric Pressure: 764 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	15:33
CHK	0.306	15:34
BLK	0.000	15:36
CHK	0.305	15:36
BLK	0.000	15:38
CHK	0.305	15:39

Test Status: *Success*

Calibration CRC: 2C66631D

HMS

MSK

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010498 Test Number: 919

Test Date: 11/20/2013 Test Time: 15:42 EST

Dry Gas Target: 0.101

Lot Number: AG230501-41 Exp Date: 10/31/2014

Tank Pressure: 1061 psi Barometric Pressure: 764 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	15:42
CHK	0.102	15:43
BLK	0.000	15:45
CHK	0.102	15:46
BLK	0.000	15:47
CHK	0.102	15:48

Test Status: *Success*

Calibration CRC: 2C66631D

Handwritten initials/signature in blue ink.



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 11/20/2013
TEST EQUIPMENT NUMBER 010498		

RESULTS: TIME SAMPLE TAKEN 15:55 EST
0.00
SAMPLE'S ALCOHOL CONTENT _____ GRAMS PER 210 LITERS OF BREATH

ATTEST:
I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20 _____.

BREATH TEST OPERATOR

I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____ SUBJECT'S SIGNATURE

SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____ OPERATOR'S SIGNATURE

FOR COURT



IntoxNet MIS Report

Report Generated 25 Nov 2013 at 09:22

AMS
mk

Test Results

Instrument Serial Number 010498

Test # 000920 Subject Test

Test Location 1 Department of
Test Date 20 Nov 2013

Test Location 2 Forensic Science
Test Time 15:49
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial N
License Number 18910

Card Serial Number 118910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 20 Nov 2013 End Time 15:56

Result Time 15:55

Result Date 20 Nov 2013

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 15:49

Data Type BLK

Sample Value 0.000

Sample Time 15:50

Data Type CHK

Sample Value 0.102

Sample Time 15:51

Data Type BLK

Sample Value 0.000

Sample Time 15:52

Data Type SUBJ

Sample Value 0.000

Sample Time 15:53

Data Type BLK

Sample Value 0.000

Sample Time 15:54

Data Type SUBJ

Sample Value 0.000

Sample Time 15:55

Data Type BLK

Sample Value 0.000

Sample Time 15:56

Standard Type Dry Gas Std

Standard Value 0.101

Standard Lot Number AG230501-41

Standard Expiration Date 10/31/2014

Tank Pressure 1051

Barometric Pressure 764 mmHg

Blow Sample Number 1 Blow Duration 3.28 sec

Blow Volume 1723 cc End-of-Blow Time 15:53

Blow Sample Number 2 Blow Duration 3.55 sec

Blow Volume 1701 cc End-of-Blow Time 15:55

Tamper Evident Stamp 23ee68b6

Test Status Code 0

Test Status Success